

AMENDMENTS TO THE CLAIMS

Listing of Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method comprising:
 - (A) receiving a first channel burst broadcasted from a first base station on a wireless channel, wherein the first base station serves a first cell and wherein the first channel burst supports a data service;
 - (B) determining whether a serving signal quality associated with the first cell satisfies a handover criterion;
 - (C) in response to (B), obtaining measurements associated with a list of candidate cells, wherein the list comprises at least one candidate cell and wherein each measurement gauges a corresponding signal quality that is provided by a corresponding candidate cell;
 - (D) if a selected signal quality is acceptable, deciding to perform a handover to a selected candidate cell, wherein the selected candidate cell is a member of the list and wherein the selected signal quality corresponds to the selected candidate cell;
 - (E) after performing (D), receiving a final channel burst from the first base station; and
 - (F) in response to (E), performing the handover to the selected candidate cell and receiving a new channel burst from a selected candidate base station such that the handover occurs between the final channel burst and the new channel burst, wherein the selected candidate base station is serving the selected candidate cell.

2. (Previously Presented) The method of claim 1, wherein (C) comprises:

(i) if obtaining the measurements cannot be completed before receiving the final channel burst from the first base station, suspending obtaining the measurements;

(ii) receiving another channel burst from the first base station; and

(iii) in response to (ii), resuming obtaining the measurements.

3. (Original) The method of claim 1, wherein the serving signal quality is determined from the first channel burst.

4. (Original) The method of claim 1, wherein the serving signal quality is selected from a group of indicators consisting of a received signal strength indicator (RSSI) value, a bit error rate (BER), a packet error rate (PER), and a frame error rate (FER).

5. (Original) The method of claim 1, wherein (D) comprises:

(i) adjusting the selected signal quality by a hysteresis value.

6. (Original) The method of claim 1, further comprising:

(G) determining the list of candidate cells.

7. (Original) The method of claim 6, wherein (G) comprises:

(i) receiving handover information from the first base station, wherein the handover information comprises candidate information indicative of the list of candidate cells.

8. (Original) The method of claim 1, further comprising:

(G) determining a phase shift offset that is associated with the selected candidate cell.

9. (Original) The method of claim 8, wherein (G) comprises:
- (i) receiving handover information from the first base station, wherein the handover information comprises the phase shift offset that is associated with the selected candidate cell.
10. (Original) The method of claim 8, further comprising:
- (H) in response to (E), suspending reception on the wireless channel until performing (F).
11. (Original) The method of claim 10, wherein (H) comprises:
- (i) reducing power consumption of the wireless terminal.
12. (Original) The method of claim 1, further comprising:
- (G) if a candidate signal quality is not acceptable, removing the associated candidate from the list of candidate cells.
13. (Original) The method of claim 1, wherein (F) comprises:
- (i) receiving the new channel burst associated with a different frequency.
14. (Original) The method of claim 1, wherein (F) comprises:
- (i) receiving the new channel burst associated with a different channelization code.
15. (Original) A computer-readable medium having computer-executable instructions for performing the method recited in claim 1.
16. (Original) A computer-readable medium having computer-executable instructions for performing the steps recited in claim 10.

17. (Previously Presented) The method of claim 1, further comprising serving a digital broadband broadcasting area and the data service is associated with a digital broadband broadcasting service.

18. (Previously Presented) The method of claim 1, wherein a phase shift offset associated with the selected base station is not provided by a same wireless system.

19. (Original) The method of claim 1, further comprising:

(G) in response to (E), determining that the serving signal quality is not indicative of a handover; and

(H) in response to (G), canceling the handover to the selected candidate cell.

20. (Currently Amended) An apparatus comprising:

a storage buffer;

a timing module;

a radio module configured to communicate with a wireless system over a radio channel;

a processor configured to receive an indication from the timing module that a current first channel burst is being transmitted, wherein the current first channel burst contains a first group of data packets, and configured to store the first group of data packets into the storage buffer, the processor configured to perform:

(A) receiving a first channel burst broadcasted from a first base station on a wireless channel, wherein the first base station serves a first cell and wherein the first channel burst supports a data service;

(B) determining whether a serving signal quality associated with the first cell satisfies a handover criterion;

(C) obtaining measurements associated with a list of candidate cells, wherein the list comprises at least one candidate cell and wherein each measurement gauges a corresponding signal quality that is provided by a corresponding candidate cell;

(D) if a selected signal quality is acceptable, deciding to perform a handover to a selected candidate cell, wherein the selected candidate cell is a member of the list and wherein the selected signal quality corresponds to the selected candidate cell;

(E) after performing (D), receiving a final channel burst from the first base station; and

(F) in response to (E), performing the handover to the selected candidate cell and receiving a new channel burst from a selected candidate base station such that the handover occurs between the final channel burst and the new channel burst, wherein the selected candidate base station is serving the selected candidate cell.

21. (Previously Presented) The apparatus of claim 20, wherein the processor is configured to perform:

(G) adjusting the selected signal quality by a hysteresis value.

22. (Previously Presented) The apparatus of claim 20, wherein the processor is configured to perform:

(G) determining a phase shift offset that is associated with the selected candidate cell.

23. (Previously Presented) The apparatus of claim 20, wherein the processor is configured to perform:

(G) determining a phase shift offset that is associated with the selected candidate cell;

(H) in response to (E), suspending reception on the wireless channel until performing (F); and

(I) in response to (H), reducing power consumption of the wireless terminal.

24. (Previously Presented) The apparatus of claim 20, wherein the processor is configured to perform:

(G) if a candidate signal quality is not acceptable, removing the associated candidate from the candidate list.

25. (Currently Amended) An apparatus comprising:

a communications module configured to receive a plurality of channel bursts broadcasted from a first base station before a handover and a new channel burst from a selected base station and configured to controllably tune to one of a plurality of base stations, wherein the plurality of channel bursts and the new channel burst support a data service on a wireless channel;

a measurement module configured to obtain signal quality information from the communications module, the signal quality information being indicative of the first base station and the selected base station, the selected base station being a member of the plurality of base stations; and

a handover analysis module:

configured to instruct the communications module to tune to said one of the plurality of base stations and instructs the measurement module to obtain corresponding signal quality information corresponding to said one of the plurality of base stations;

configured to process the signal quality information to determine whether the handover to the selected base station is necessary;

configured to instruct the communications module to receive a last channel burst from the first base station after the handover analysis module determines to perform the handover; and

configured to instruct the communications module to tune to the selected base station and to receive the new channel burst from the selected candidate base station such that the handover occurs between the final channel burst and the new channel burst.

26. (Previously Presented) The apparatus of claim 25, further comprising:

a power control module configured to reduce electrical power to the communications module if provided an instruction by the handover analysis module, wherein the handover analysis module is configured to generate the instruction between a time interval between the last channel burst and the new channel burst, and wherein the communications module is configured to suspend reception on the wireless channel.

27. (Currently Amended) A method comprising:

(A) receiving a first channel burst broadcasted from a first base station on a wireless channel, wherein the first base station serves a first cell and wherein the first channel burst supports a multicast service;

(B) determining a list of candidate cells, wherein the list comprises at least one candidate cell;

(C) determining whether a serving signal quality associated with the first cell satisfies a handover criterion;

(D) obtaining measurements associated with the list of candidate cells, wherein each measurement gauges a corresponding signal quality that is provided by a corresponding candidate cell;

(E) adjusting a selected signal quality by a hysteresis value;

(F) if a candidate signal quality is not acceptable, removing an associated candidate from the candidate list;

(G) if the selected signal quality is acceptable, deciding to perform a handover to a selected candidate cell, wherein the selected candidate cell is a member of the list and wherein the selected signal quality corresponds to the selected candidate cell;

(H) after performing (G), receiving a final channel burst from the first base station; and

(I) in response to (H), performing the handover to the selected candidate cell and receiving a new channel burst from a selected candidate base station such that the handover occurs between the final channel burst and the new channel burst, wherein the selected candidate base station is serving the selected candidate cell and wherein the new channel burst supports the multicast service.